Defense Information Infrastructure (DII)

Common Operating Environment (COE)

Version 3.0.0.3

Kernel Patch 3 Installation Guide (Solaris 2.5.1)

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Preface

The following conventions have been used in this document:

[HELVETICA FONT]	Used to indicate keys to be pressed. For example, press [RETURN].
`Courier Font`	Used to indicate entries to be typed at the keyboard, operating system commands, titles of windows and dialog boxes, file and directory names, and screen text. For example, type the following command at the prompt: `setenv boot-device diskN`
"Quotation Marks"	Used to indicate prompts and messages that appear on the screen.
Italics	Used for emphasis.

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1. Introduction

1.1   Overview

The Defense Information Infrastructure (DII) Common Operating Environment (COE)
Version 3.0.0.3 Kernel Patch 3 (Solaris 2.5.1) enhances the DII COE 3.0.0.3 Kernel by updating
the operating system patches and security patches and by supporting installation on systems that
do not have a `hostname.le0` file. Previous installations failed to install without the
`hostname.le0` file.

This DII COE Version 3.0.0.3 Kernel Patch 3 (Solaris 2.5.1) tape consists of a relative tar file.

1.2   Referenced Document

The following document is referenced in this installation guide:

C   DII.3003.Sol251.IG-1, *Defense Information Infrastructure (DII) Common Operating
Environment (COE) Version 3.0.0.3 Kernel Installation Guide (Solaris 2.5.1)*, April 7,
1997.

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2.   Kernel Patch Installation

The 31 operating system patches and security patches from the DII COE Version 3.0.0.3 Kernel
Patch 3 (Solaris 2.5.1) tape can be installed either before or after the DII COE Kernel has been
installed on your machine. If you are installing the patch tape before installing the DII COE
Kernel, remember to first install the Solaris 2.5.1 operating system on your machine. Refer to the
DII COE Kernel Installation Guide (Solaris 2.5.1) for information on installing the Solaris 2.5.1
operating system and the DII COE Kernel.

The subsections below describe how to install the 31 operating system patches and security
patches. Use subsection 2.1, *Installing the Operating System Patches and Security Patches
Before Installing the Kernel*, to install operating system patches and security patches *before*
installing the kernel. Use subsection 2.2, *Installing the Operating System Patches and Security
Patches After Installing the Kernel*, to install operating system patches and security patches *after*
installing the kernel.

2.1   Installing the Operating System Patches and Security Patches Before
Installing the Kernel

STEP 1:   **Log in as `root`**. Type `root` at the name prompt and press [RETURN].

STEP 2:   **Enter the `root` password**. Type the `root` password at the password prompt and
press [RETURN].

STEP 3:   **Remove the Solaris 2.5.1 CD from the CD-ROM drive, if necessary**. Type the
following command to eject the Solaris 2.5.1 CD from the CD-ROM drive:

> `eject cdrom`[RETURN]

Remove the CD from the drive.

STEP 4:   **Load the patch tape**. Load the DII COE Kernel Patch 3 tape into a tape drive.

STEP 5:   **Extract the patches from the tape**. Type the following command if the
Sun-compatible tape drive is attached to the system:

> `tar xvf /dev/rmt/Xmn`[RETURN]

(where X is the tape drive number)

NOTE: The tape drive number is a number from 0-6 (usually 0). If you are unsure of the tape
drive number, type the `tar xvf /dev/rmt/Xmn` command using "0" as the value for X. If this
command does not work, type the command using the numbers 1-6 for X until one works.

Type the following command if the Sun-compatible tape drive is attached to another SPARC system:

```
rsh Y dd if=/dev/rmt/Xmn bs=20b | tar xvfB –[RETURN]
```

(where Y is the remote host's IP address, and X is the tape drive number)

A prompt appears after the patches are extracted from the tape.

STEP 6: **Load the Kernel tape**. Load the DII COE Kernel tape into a tape drive.

NOTE: You must remove the DII COE Kernel Patch 3 tape and load the DII COE Kernel before you can execute the inst.dii install script.

STEP 7: **Start the installation program**. Wait until the lights on the tape drive have stopped flashing. Type the following command to start the installation program:

```
/tmp/inst.dii [RETURN]
```

Follow the steps in Section 3.4, *Installing the DII COE Kernel*, starting at STEP 7, of the *DII COE Kernel Installation Guide (Solaris 2.5.1)* to finish installing the DII COE Kernel.

2.2   Installing the Operating System Patches and Security Patches After Installing the Kernel

Follow the steps below to install the operating system patches and security patches from the DII COE Kernel Patch 3 tape after the DII COE Kernel has been installed.

STEP 1: **Log in as `root`.** Log in as root and enter your password. A terminal emulator window with root privileges appears.

STEP 2: **Change the directory to `root`.**. Type the following command to change the directory to root:

```
cd / [RETURN]
```

STEP 3: **Load the patch tape**. Load the DII COE Kernel Patch 3 tape into a tape drive.

STEP 4: **Extract the patches from the tape**. Type the following command if the Sun-compatible tape drive is attached to the system:

```
tar xvf /dev/rmt/Xmn [RETURN]
```

(where X is the tape drive number)

> **NOTE:** The tape drive number is a number from 0-6 (usually 0). If you are unsure of the tape drive number, type the `tar xvf /dev/rmt/Xmn` command using "0" as the value for X. If this command does not work, type the command using the numbers 1-6 for X until one works.

Type the following command if the Sun-compatible tape drive is attached to another SPARC system:

`rsh Y dd if=/dev/rmt/Xmn bs=20b | tar xvfB –`[RETURN]

(where Y is the remote host's IP address, and X is the tape drive number)

STEP 5: **Change to the directory containing the patches**. Type the following command at the prompt to change to the directory containing the patches:

`cd /h/2.5.1_Patches.new` [RETURN]

> **NOTE:** If you are installing on a SUN SPARCstation-5, continue on to STEP 6 and remove the 104735-02 patch. If you are *not* installing on a SUN SPARCstation-5, proceed to STEP 7.

STEP 6: **Remove the 104735-02 patch**. Type the following command:

`rm -rf 104735-02`[RETURN]

STEP 7: **Install the remaining patches**. Type the following command:

`./install_cluster -q -nosave -novalid`[RETURN]

A message appears as each patch is installed.

Installation of the patches takes approximately 10 minutes.

STEP 8: **Change to the parent directory**. Type the following command at the prompt to change to the /h directory:

`cd /h` [RETURN]

STEP 9: **Confirm that the patches are installed**. Type the following command at the prompt to confirm that the patches have been installed:

`showrev -p` [RETURN]

The patches that have been installed successfully are listed. Beside each successfully installed patch is a list of patches that have become obsolete with the

installation of the new patch (`Obsoletes`), patches required with the new patch (`Requires`), patches that are incompatible with the new patch (`Incompatibles`), and packages (`Packages`).

NOTE: If the DII COE Kernel Patch 1 has *not* been installed, continue on to STEP 10 and remove the directory containing the patches. If the DII COE Kernel Patch 1 *has* been installed, proceed to STEP 11.

STEP 10: **Remove the directory containing the original patches**. Type the following command at the prompt to remove the directory containing the original patches:

> `rm -rf 2.5.1_Patches`[RETURN]

STEP 11: **Remove the directory containing the new patches**. Type the following command at the prompt to remove the directory containing the patches just installed:

> `rm -rf 2.5.1_Patches.new`[RETURN]

These directories are obsolete because the patches have been installed in the operating system. Installation of the DII COE Kernel Patch 3 tape is now complete.

3. Known Problems and Errors

None.

4. Release Note

1. The DII COE Kernel Patch 3 tape includes the latest version of the Solaris 2.5.1 Operating System patches. If a previous set of operating system patches has been installed, use the manual steps in Section 2.2, *Installing the Operating System Patches and Security Patches After Installing the Kernel*, to overwrite those patches.